

## ABSTRACT OF THE DISCLOSURE

[0091] A method for directly providing a wireless application protocol (WAP) service for wireless Internet in an actual content provider (or a WAP server) on the Internet, instead of using the relay server of a mobile business company providing a communications channel between a mobile communications network and the Internet, is provided. In the method, a content server on the Internet performs data processing at a wireless datagram protocol (WDP) layer and higher layers. The method includes the steps of (a) the content server receiving a user's request message for a wireless Internet service from a WAP terminal connected to a mobile communications network, the request message being based on a WAP; (b) processing the request message received in the step (a) based on the WAP; and (c) constructing a response message based on the WAP to reply to the user's request for wireless Internet service and transmitting the response message to the WAP terminal. Here, a relay providing a communications channel between the mobile communications network and the Internet relays the request message transmitted in the step (a) and the response message transmitted in the step (c) at a layer below the WDP layer such that the request message is transferred to the content server, and the response message is transferred to the WAP terminal. According to the method, the relay of a mobile business company providing a communications channel between the mobile communications network and the Internet performs only a relay function at the layer below a WDP layer in the WAP, and an actual content provider or a WAP server on the Internet performs data processing at the WDP layer and the higher layers in order to provide the WAP service for a wireless Internet service. Therefore, an open solution for authentic wireless Internet can be realized.